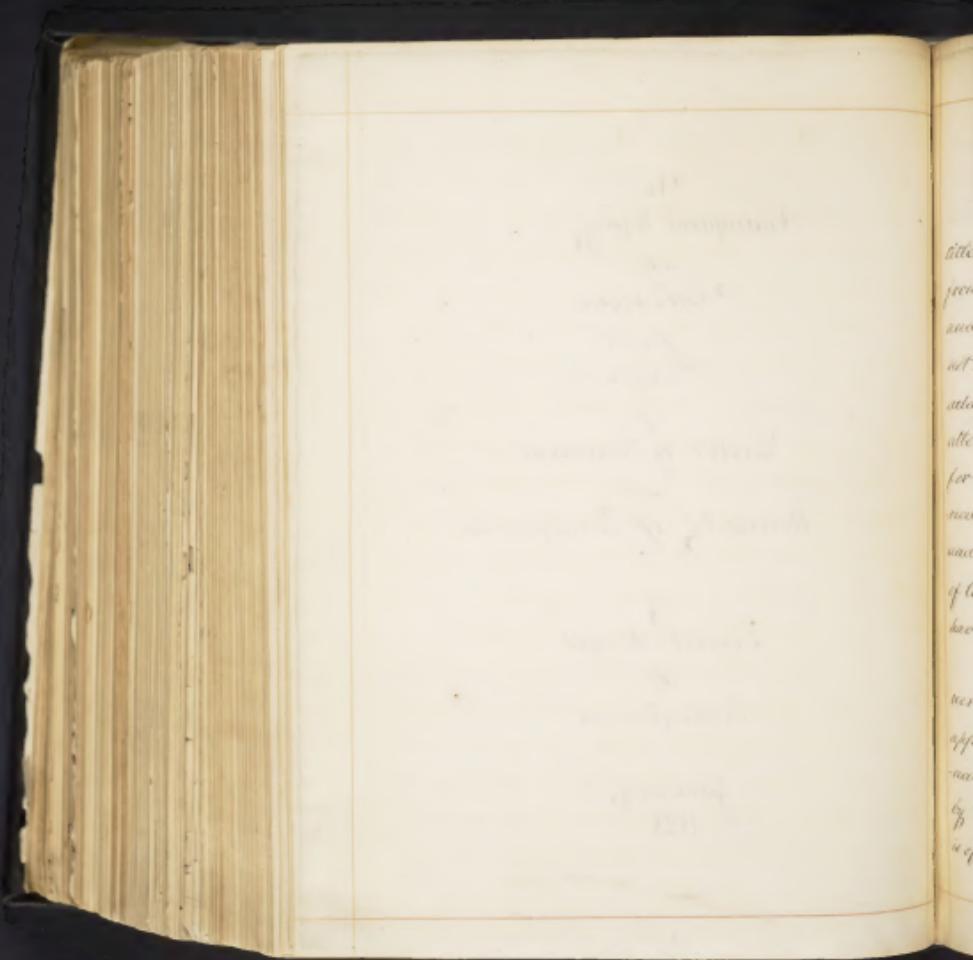


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Inaugural Essay
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by
Robert Bridges
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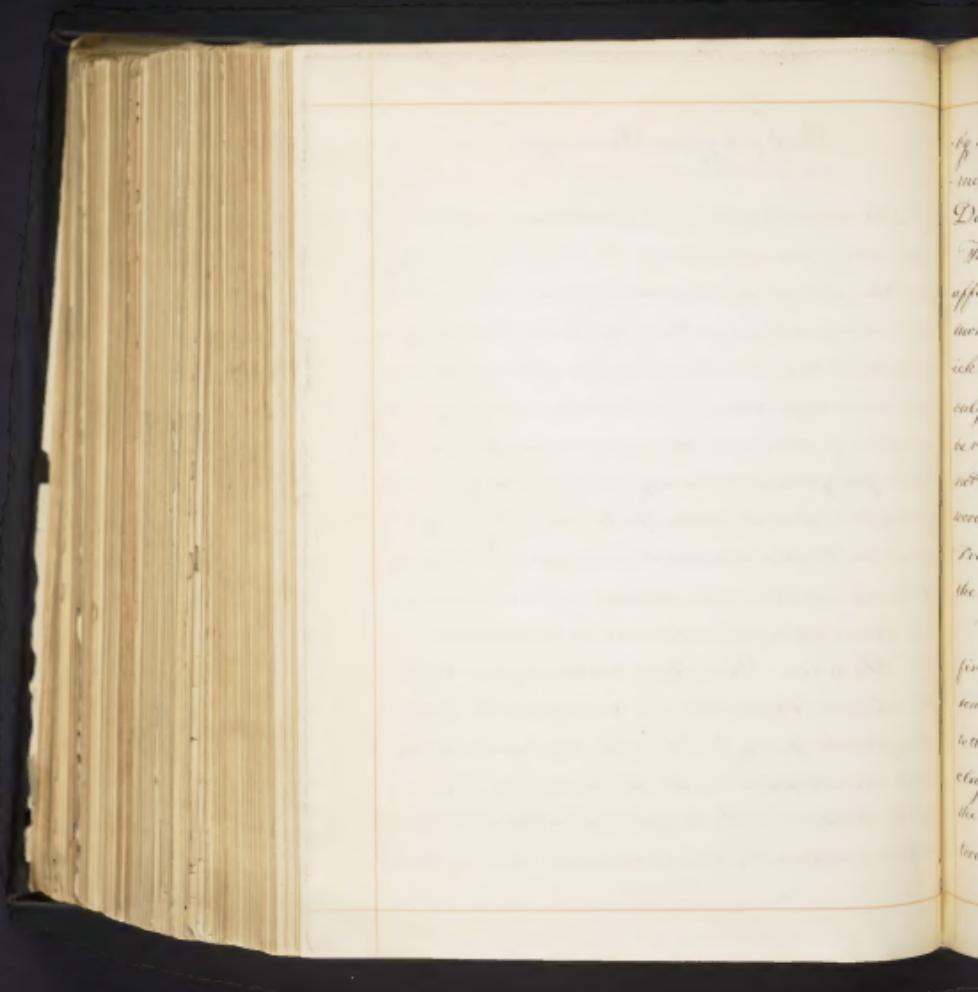


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An Essay on Neuralgia.

The disease intended to be noticed under this title, has of late attracted much attention, not only from the painful character, but from the irtractable and obscure nature of the complaint. This essay is not undertaken with the vain hope of throwing any additional light on a subject which has engaged the attention of able and more experienced persons, but for the purpose of collecting and arranging the various opinions and facts appertaining to the inquiry and to condense into a small compass the history of the various remedies, which, at different periods, have been employed in the cure of the disease.

The name Neuralgia (derived from νεῦρον, nervus, and ἀγος, dolor) is selected as the most appropriate of any of the terms employed to designate the disease. Tic Tolerans, the name given by Mr. André is liable to objection, as the word Tic is often used in the same sense, as, Trismus, there-



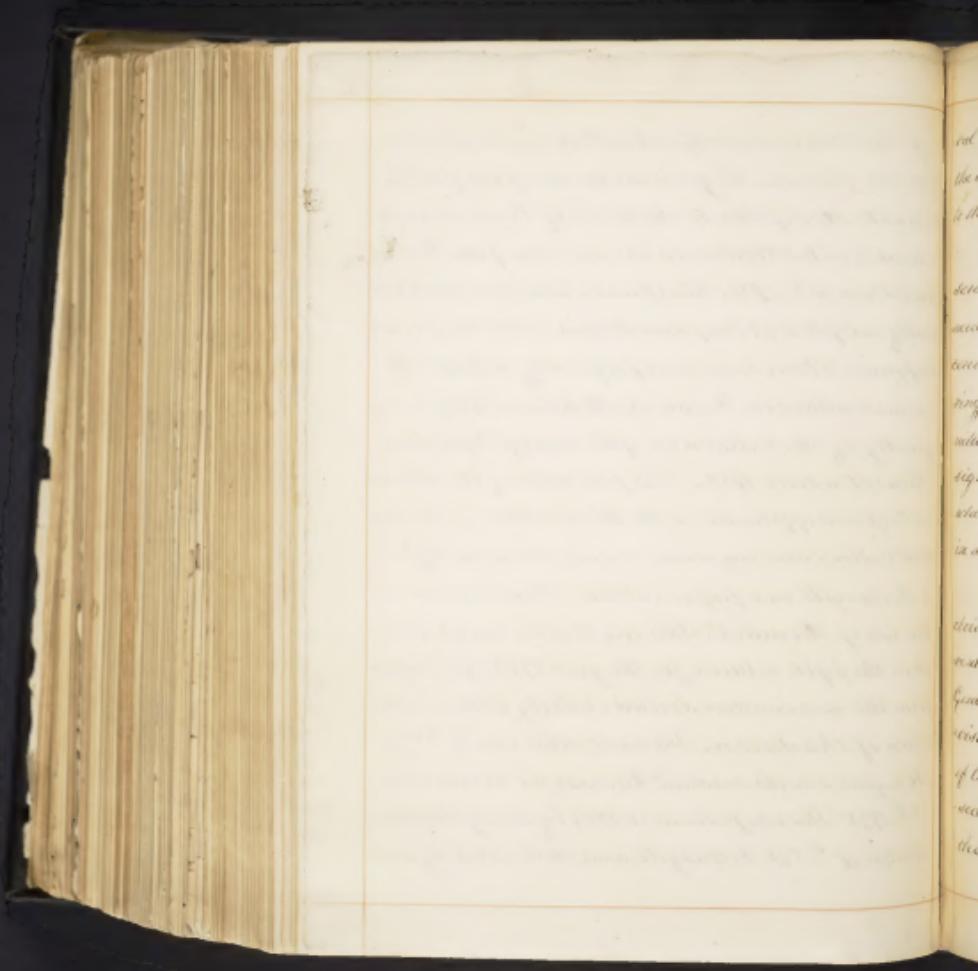
by confounding two diseases which are entirely dissimilar. The same objection will apply to "Irismus Dolosus" the name proposed by Mr. Sturges.

The names employed by Dr. J ("painful affection of the face") and Dr. Borthgill ("Faciei morbus nervorum cruciatus") are defective as generic terms, in confining their application to that form only which affects the face. Even the latter term may be reduced to the same signification as *Neuralgia*, but not so concisely expressed, by the omission of the first word of the term. The terms *Autalgia dolerosa* and *Presalgia* are rejected as expressive neither of the nature or seat of the disease.

With regard to the period at which this disease first made its appearance, authors are at variance, some ascribing it to the time of Hippocrates, others to that of Plautus an Italian writer, while a third class place it at no earlier date than the middle of the last century. Pigot who had taken the greatest trouble in this inquiry, was unable to satisfy him-

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self that the ancient Greek writers were acquainted with the disease. He gives the credit of the first accurate description, to Mr Andre of Versailles, who noticed it, in his treatise on the diseases of the Uterus published A.D. 1736. This opinion is the one most generally adopted at the present time. Since this period it appears to have been more frequently noticed. It was next noticed in France by M. Louis in 1760, subsequently by M. Villard in 1768, and by Pigot and Thuret about 1782. The first notice of the disease in England appeared in the third volume of Selected Observations and Inquiries, in a case detailed by Dr. S. Fothergill in a paper entitled "Observations on the use of Hemlock". This slight notice was followed in the fifth volume for the year 1773, by a paper from the same author, devoted entirely to the consideration of this disease. The next notice was by Dr. J. Haughton in the medical Records and Researches, A.D. 1798. This was followed in 1804 by the systematic treatise of Dr. S. Fothergill, and still later by several

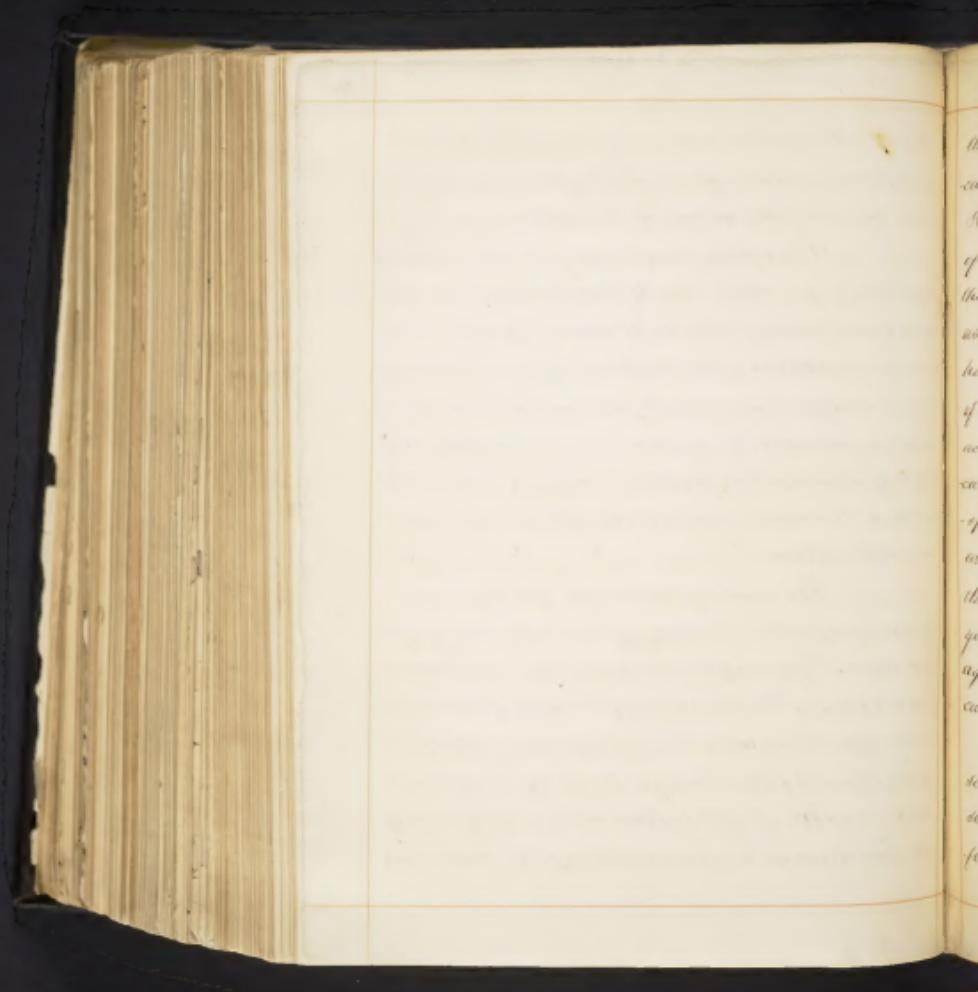


and other observations seen in distinct essays, others in the different periodical publications of the day, appended to the various cases noticed by the authors.

Neuralgia may be defined, to be, a morbid sensibility of a nerve and its branches, attended with acute lancinating pain in its course together with convulsive actions of the neighbouring muscles, occurring in sudden intermittent paroxysms. This definition is intended to embrace the characteristic signs of this disease without entering into details which will receive an appropriate consideration in another place.

The causes of this disease are not always discernible persons becoming affected without any apparent cause. They may however be divided into Local and General causes. The Local are, injuries, as, partial division, puncture ~~and~~ ^{and} tension or any organic lesion of the nervous fibre, tumors pressing upon and sectioning a nerve, slight inflammation or congestion of the neurilemma, a varicose state of its veins, and

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the irritation of decayed teeth. The passage of a bullet through the throat gave rise in one case to Generalgia of the Ophthalmic nerve, and inflammation of the soft parts round the seat of a nerve transfer'd the cause in another. The General causes are not so well known, but the following may be mentioned as having a great share in the formation or aggravation of the disease when formed. First. Those in the action of the general system are known to produce such effects, as, exposure to cold and moist atmosphere, inclemencies of weather, &c. Second. Such as productive constitutional evanings. Though these causes may be denied to produce the disease, yet they must be acknowledged to act as powerful agents in aggravating it when by the action of any cause it has been produced.

This disease is not confined to any particular set of nerves, but may affect all the nerves of sensation, especially those which are seated superficially and in loose cellular texture. The nerves



those situated are more exposed to the action of external agents, as, injuries, cold, changes of weather &c. The form which is most usually seen is that of a cervicalgia faciei, affecting the branches of the fifth pair of nerves, the second or suborbital branch is more commonly affected than either of the others. The next in frequency is that form denominated neuralgia temporocephalica. The other forms are comparatively rare. The peculiar names given to the disease according as it affects different parts are no further useful than in pointing out the location of the disease. The occurrence of two forms of this disease in the same person is seldom seen. Cases of this kind are said to have occurred to Bichat, Cotugno and Poupart.

The period of life at which this disease occurs is stated by L. C. Follett to be about the fortieth year. This may be admitted as the period at which it is most usually seen. Cases however have occurred at a much earlier period. Of thirty nine cases re-



placed in the different medical journals with the ages mentioned, twenty nine were between forty six between thirty and forty one in a year under thirty years of age. The time of life may perhaps be more correctly designated as that period at which the system appears to be loosing its balance and becoming liable to be affected by slight causes. This period varies in different persons according to their natural constitution, their previous manners and habits of life and the more or less frequent action of those causes which have a tendency to bring on premature old age. The seconda ry tired of females would seem likely to render them more susceptible of the disease, but that they are so appears doubtful. It occurred thus in the practice of Dr J. Fothergill, but in that of Dr. Petet the contrary obtained.

In exhibiting the symptoms of this disease and form will be selected which most frequently occurs as affording the best specimen of the affection. As the characteristic signs are the same

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in all parts of the body, the disease may be recogni-
zed with equal facility in any other form by taking
into consideration the anatomical structure of the af-
fected parts. A form of this disease is described by some
of the German writers in which an intermittent charac-
ter is clearly manifested by the attacks recurring at re-
gular intervals. The assertions of the existence of this
form are received with doubt by many and by others
entirely rejected, on the ground that the disease has
been confounded with Rheumatism. It is necessary to
mention some other affections of the head, which are well
known to assume a periodical character. Whether
this form exists, is not pretended to be affirmed or
denied, but until these accounts receive further
confirmation, they may be accounted as observations
not firmly to be relied on. In so far as will therefore
be considered without any reference to its assumption
of a periodical character. The disease in its course
varies in its mode of attack, sometimes beginning
suddenly in severe paroxysms, at others in a slight



a manner as to attract but little notice, and only excites attention after some time by the greater frequency and violence of the paroxysms, while on other occasions it assumes a form much resembling Rheumatism, which will cause gradually, but on the appropriate signs of this disease. In whatever manner the disease may commence, the form which it ultimately exhibits will be the same. Its attacks are marked by paroxysms occurring at irregular intervals and of uncertain duration, varying from several seconds to as many minutes. The paroxysms are generally violent in their attack, causing the patient, in most cases in a state of comparative and often perfect ease. At times these paroxysms are preceded by an acute pulsatile pain, which I have often compared to "the vibrations of a musical chord." At this period are observed, attending the paroxysm, which the affected are enabled to slightly constrict or move of the muscles may be seen, which action seems to vary according with each throbbing of the pain. This throbbing pain is often more disagreeable, though not so violent as the acute

pain of the paroxysm. The pain in this disease is acute and lancinating, shooting along the course of the nerve from its extremities to its origin. The sensation has been compared to burning or tearing, tearing or cutting the flesh from the bone. When a sick patient stretches out the arm or leg in the course of the disease, it causes him to become suddenly silent, even in the most uneasy posture. The countenance is expressive of intense agony, the brows are knit, the eyes are compressed, the angle of the mouth drawn towards the ear, the breathing is slow, pausing at times to wait at the expiration of inspiration, and the patient appears as if afraid of the slightest motion, the whole appearance portraying in visible signs the intensity of the suffering. These paroxysms are continually accompanied by redness or watering of the eye of the affected side and a flow of saliva from the mouth. It is done known the case that by hard pressure or rubbing the hand upon some particular spot the patient can alleviate the pain. This is not at all found the case even in the same person, nor is generally perceived that some when

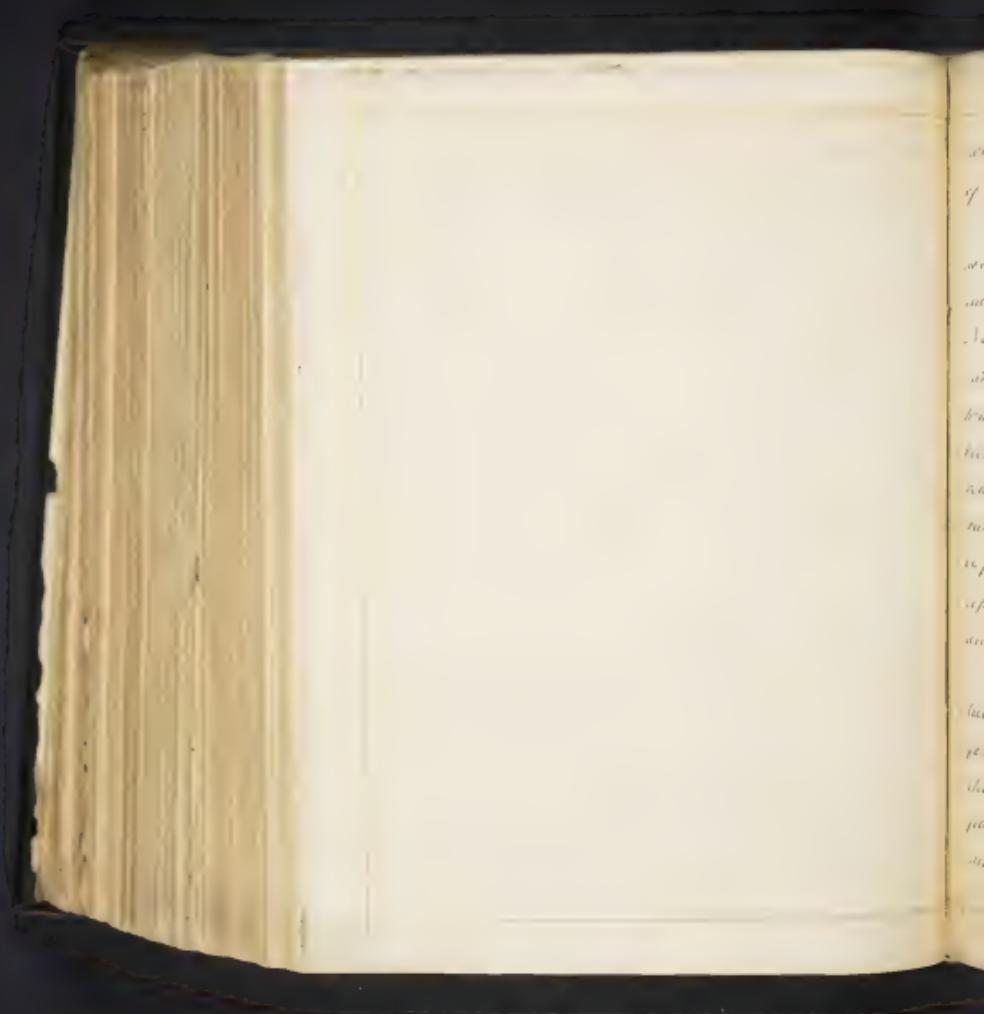
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the paroxysms occur with least frequency; in patients
gums are less numerous during the night than during
the day, owing to the patient being in a state of insom-
nia, and to many of the exciting causes being effaced.
The state of sleep alone does not prevent the occurrence of a
paroxysm, as by the lightest touch of the bedclothes no
patient fails to experience a sudden violent sleep
attack of intense suffering. Shapely gums occur at no
periods more frequently than at others. They appear
suddenly from a few days to as many months in duration,
but some are at all times equally affected. Variations of
weather influence the frequency of the paroxysms, they
being more frequent in cold and damp than in warm and
dry weather. Occasionally the disease disappears suddenly
and never again returns, but mostly after an
interval of time it recurs with its former violence. Those
sufferers are the more frequent who the disease informs
standing. In these cases though the patient may be agitated
with the degree of intense relief, yet a renewal of the
disease may confidently be expected. Notwithstanding



shorter length of time, and is a continuing swelling, & example of the soft parts. Common in colds, & the same name is frequently applied to any swelling or slight swelling of the parts, & to which the affected parts are now returning to their former state. This swelling appears to be of a non-infecting nature, character, & name to be, commonly, except in irritations, as it always subsides in short time, & is in acute morbid cases terminates in suppuration. The most trivial causes are sufficient to produce a severe swelling, as slight motion, masticating, drinking, talking, & minute touch upon their parts, but a gentle current of air is productive of excruciating pain.

Scorbutic may be confounded with Starited, & dolorous, & Hemicrania. Affections of the Sulcus. Swelling, pain, & suppulsive parts. Then the disease is fully investigated, with due solicitude much will be manifest, that it is not easily mistaken. In the commencement it is not so well marked, and as all diseases have a tendency, when neglected or improperly treated, to become more firmly fixed, and to be eradicated with difficulty, it



would be in proper degree to the sympathetic symptoms of the disease.

Such form of disease is not easily to be identified without implantation of the nervous system in disease. Neuritis is most liable to be confounded with Neuralgia, not only from its affecting the same parts, but from its having, like angioneuritis, swelling of the parts, however, neuritis distinguished by the pain in Neuritis being constant, with only occasional exacerbations and remissions, but more suddenly intermission in Neuralgia. A manifest swelling of the nerve may generally be perceived in Neuritis and its functions are more or less impaired. On the contrary in Neuralgia there is no swelling and no loss of function.

Neuralgia may be distinguished from Odontalgia, by its occurring generally at an age when but few teeth remain, by the shortness of the paroxysm, the intervals of ease and the darting nature of the pain; while in Odontalgia the pain is deep seated and may usually be traced to the irritation of a decayed

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with, and more particularly, ^{is} relieved by striking the
suspected tooth with a hard body.

From Mimerania it is to be distinguished by the
of the attack in the former being generally, univocal,
the pain fixed to a definite spot, continuing some
length of time and disappearing in a gradual man-
ner; the pain likewise does not follow the course of any
nerve, and requires stronger causes to produce an ex-
acerbation.

The affections of the Mimerania differ in their symp-
toms from Neuralgia in the pain being constant and
confined to the region of the ear, never darting in
the course of a nerve, and by the ultimate ignawing
terminated by a discharge of pus or exudate considered as
peculiar. The affections are also not much under the
influence of external agents.

Some diversity of symptoms exist between Neural-
gia and Rheumatism, the pain in the former being
continuous, intermitting and following the course of a
nerve; while in Rheumatism, it is fixed, constant and



... in the State just mentioned, yet the exact cause is not known, as the course from lesion being constant to death is usually and not exceeding eight weeks.

From Great Britain distinguishing marks of the suddenness of onset and recurrence of the paroxysms, those of Great Britain of longer duration, and accompanied by local inflammation.

Syphilitic pains are distinguishable by the frequent severity of the complaint and their period of exacerbation, which might with the patient is unknown.

The temperature obtained from frequent and systematic examinations were at the present period, extremely variable. To determine the precise position, the opportunity of detecting the specific condition of the affected nerve have been rare. In the few cases in which it appears much diversity in the state of the affected parts, while in some cases no deviation from the healthy state has been found, in others diseased affections have presented. In some cases the neurilemma was found more highly tinged with blood than is natural, slightly thick-



and in this way more or less time is taken up in the test. The head being covered with various bandages in a relaxed state, but not containing any except of some kind, either circumstance is sufficient, in the relaxed state of the head, to admit of an air being taken, which may have excreted itself. In determining similar test, though too long a delay in making the examination there can never be a refusal to give this evidence to witness, provided, of course, it is in the substance of the case. It is, though, so much diversity, now existing, in the evidence of appearance, no difference has presented in the symptoms by which the cause might have been known, except in those cases caused by tumors, in which the morbid portion is not evident to the testes.

Such difference of opinion exists as to the proximate cause of Neuralgia, each author setting forth his own opinion or theory, respecting its significance. Notwithstanding the numerous hypotheses advanced for determining the proximate cause, none can be considered as based upon a foundation entitled to much confi-



dence. And in the torpor of the muscles and
 the infusor. by which it exerts the influence of
 the sensor. that continues insomuch that in writing
 that opinion which probably set the nature of the disease
 beyond cause. Dr. Macphee's succeeded that of Dr. J. M. who
 induced me to it, over the disease to be a natural
 state of evolution of the nerve, depending on the
 generation of a nervous humor to produce a paroxysm. This
 hypothesis was refuted by Thuret's encroaching ini-
 mately into the subject of Cramp maintenance in
 utter dissimilarity of the two diseases. Dr. Gotter-
 gill perceiving his opinion from the practice of certain
 local afflictions in these circumstances where his care
 was less to encounter the disease as connected with a
 common diathesis. Dr. Parkinson's remarks of Dr.
 H. Wright in suffice to show the fallacy of Macphee's
 Dr. Gottergill is not the only author who connects
 this disease with other affections of the system:
 Some later writers have made the proximate cause
 consisting in an arthritic diathesis, rendering therefore

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nia on the fact, that those pains disappear in an attack of heat, and from cooling at the affected, point to irritation may suppose to resemble those caused by heat. But as observed by L. J. S. in "his hypothesis is not applicable to every case, it is inadequate to explain the pathology." By L. Derry, the disease is located in the capillary vessels of the neurilemma and said to consist in an increased insensibility or deactivation of these vessels, upon mounting a inflammation, of that part. That this is sometimes the case is shown by *Post mortem* examinations, but other phenomena also present which are not consonant with this theory. To Armstrong this disease appeared as "a congestion or increased action in the vessels of the brain." This cannot be the case in these attacks which have their origin in local causes, occurring, &c. the hypothesis therefore falls short of explaining the nature of the disease. By Horneffy Wilson and others, the disease is said to consist in a morbid sympathy, having its origin in the digestive organs. However active such affections may be in

approaching the disease, it is more difficult to hit upon
any exactness in its formation. They can hardly be supposed
so perfect as to allow minute examination parts &
more susceptible to the action of the views of the disease.
The partial and limited nature of the exact and
solid disease is manifest. Each author relying but
in a certain remote part of a wider disease which
will have yielded to some peculiar method of treatment, forms
an opinion from these alone, putting entirely out of view
those cases where disease against our doctrine. It is con-
siderable this, that the disease has been so differently treated
and associated with effects so presenting different
phenomena. These partial views would yet be useful;
were it not that relying with too much confidence in
their correctness, remedies would be rejected, which often
have for, not trifling or unimportant instances of the
disease, an association in harmony with our system. On
the other hand, rejecting every theory, we deprive our
selves of any clear indications in the choice of our re-
medial resources and we are compelled to act empiri-

Category	Definition	Example
1. <i>Structures</i>	Abstract data types that define the structure of data.	Stack, Queue, List, Tree, Graph.
2. <i>Algorithms</i>	Step-by-step procedures for solving problems or performing tasks.	Binary Search, Dijkstra's Algorithm, Depth-First Search.
3. <i>Complexity Analysis</i>	Measuring the time and space requirements of an algorithm.	Big O notation, Space complexity.
4. <i>Design Patterns</i>	Reusable solutions to common design problems.	Singleton, Factory, Observer.

merely upon a time to time. But this misconception
 were induced to adopt in opinion which affects the whole
 of it with our present knowledge and by which we can suppose
 the action of our remedies, at the same time, not to be so far
 carried away by theory as to lose sight of opposing facts,
 but to leave the way open to positive inquiry and to want
 nothing, but a good and exact application of the
 knowledge which we have of the effects of
 our remedies. We shall, however, as far as
 possible, be particular, as to weight the opinions of
 persons of eminence in the medical profession,
 and to give a full account of the
 evidence which they have adduced in
 support of the doctrine. We also, then, we are entitled
 to do, consist in unirritation acting on some part of our
 nervous chord, producing a partial intermission of its func-
 tions and exhibiting its effects only ~~only~~ when it is
 excited one by the secondary or exciting causes. We shall
 endeavour to draw some arguments in favour of this pos-
 tition from the Symptoms, Causes, Phenomena, especially
 upon the nerves, and the excited simplicity in the case of the
 disease. But of ~~of~~ ^{the} nerves we are not acquainted, for we



permutation of consequences of the nature of the disease.

They suffice to show the relation of the disease to the irritative state of the nerves, for, within a very long time of the disease of this state. From them, the physician cannot easily ascertain what is not the cause of the disease to suppose, that it is not an acute inflammatory action in the neuritis. And the suddenly intermitting nature of the pain entirely disposes, for in inflammation the pain is constant, varying occasionally in power, but not intermitting; the latter trait, intermission, is more characteristic, and especially, of disease to irritation. During the course of the disease, from the symptoms, it is most evident to that it is liable to in certain the nature of the disease. If that, the cause must attract our attention, and, giving it the name of inflammation. When the disease arises from this cause it pursues the following course. That is, injury to the nerve, such, as will either wither it, or, if it is a nerve, the nerve, but soon resume its natural appearance, previous to which it is seen often darting, pains are felt in the course of the nerve, and increasing.



infrequency and extent, exhibit the characteristic symptoms of Neuralgia. There is however an insidious and protracted oppressive effect, till the progress of the disease becomes evident, the result of the excretion of acids. To ascertain the probable nature of these, we must resort to the usual terminations of inflammation. There may remain a nervous discharge, or engorgement of the lymphatic vessels of serum or coagulated lymph, any of which may by their pressure, produce a sense of irritation. Neuralgia is said to be frequently connected with this condition. This condition may very much increase the principal seat occupied in the body, by diffusing the irritation of the calumniated, which irritation is propagated through the course of the affected nerves.

This case is reported by Bailey in which the excretions were affected, and by him it was attributed to the passage of calculi through the ureter. This opinion was founded on the circumstance that the disease could not be ceased, and not long before a jagged calculus was passed with the urine, if he did not err in his conclusion.

we have for some particular substances much influence of
an excitant, & have singular talents now & placed in the
neighborhood of a mucous membrane but incapable in a more
remote situation, and produce the disease. But it
is not by causing an inflammatory action that these solids
are perceived, & manifest, even that can the cause
the disease, but those parts so nearby, it may here
cause congestion, which acts but by preventing
by limiting the action of the nerve. Thus are re-
tarded &c. & some other disease opposing the capa-
city of extension, which are found in any part where
such a disease occurs. But in inflammation the
cause of the morbid parts, quite as the fact account has
been manifested by the extension of the pain but the
disease was caused by the pressure and irritation of the
solid on the nerve. It can now consider all the cases
from which any just inference may be drawn & relate
not like any other disease in the body to its position. So
according to theory, the disease shows that the nerve in & near
considering application. However these effects we may differ, their

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which is the sum, tongue are capable of becoming objects of such exquisite sensibility; & therefore, when their parts are used to communicate, it is, that in these respects, it will be sufficient to slight, & leave the result may be fully conceived. The remains within the body of the tongue, are, however, to point out irritation in the greatest variety. The tongue is, however, when these are most affected, a little, & in the greatest sensibility. Nerves are inserted, & are impinging, like to the general system, render particular parts less susceptible to irritation. Counter irritants are employed, & directly subduing an irritation, easily extracted, giving, & not in addition, a popular & immediate management.

The opinion as here adduced receives additional support from the susceptibility, in the operculum, of all along the nerve, in which the communication between the sensorium and affected part, is completely interrupted. In this offering, a popular effect in favoring the doctrine of Andri, we can hardly expect to vary, & come in to the minds of others, and we may, I am sure, do

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and to 1/2 yd. and the vegetation is more sparse in these
valleys, in this part of the country, may easily confirm the
theory in favour of a natural or substitute one more consistent
with the phenomena connected with the disease.

The course of the disease, we have said, may be so
varied in any portion of the stem. When an injury is in-
flicted on a stem, it is immaterial upon what part
it acts, as the disease is with equal readiness produced,
but with this difference, that when the trunk receives
the injury, the effects are exhibited in the direction
of the growing, but when the extremities, the ex-
treme of each appears in the trunk and branches given off
by it. A portion also which has been detached
to the instrument of violence.

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From the uncertainty in which the true nature of the disease is yet involved, it is difficult to lay down any accurate indications in its treatment. In consideration of this difficulty, the diversity of the causes and the variety in the remedies hitherto employed, we are induced to arrange the curative measures under the classes, practised upon the view we have endeavoured to obtain.

Class first. Those measures calculated to remove the cause of the disease.

Class second. Those measures calculated to prevent the action of the cause from reaching the disease.

Under these two classes we shall endeavour to comprehend all the remedies which have been used in this disease and with the principle of whose action we are acquainted.

Class first. Those measures calculated to remove the cause of the disease.

As these measures will vary according to the cause, our first endeavour should be to ascertain a particular cause, by ascertaining what the disease is, produced. In this at

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which we will meet with considerable disappointment
inasmuch as, except of distinguishing the different causes
there are few and not to be relied on with much confidence.

The irritation of decayed teeth has been stated as one
of the causes. The presence of this irritation may often
be ascertained with ease, at others it is not so apparent,
the diseased part being concealed from view. In this case
the following testes are usually resorted to. When the
disease is in the neck of the tooth and concealed by the
gum, it may be detected by passing a delicate, sharp, min-
iature probe, with a slightly curved end, carefully around
the tooth, when if any cavity exists it will be perceived.

When the disease is in the root of the tooth, striking with
the point of the suspended tooth a thin round metallic needle
will give a perception of considerable pain, which
we may hence thus ascertain the presence of the disease,
as we are certain that it is the cause of the disease.
We know in the one world that the disease has only
been known to man, the other that they have seen
and ascertained the same. If in the former case, as

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part the web the disease is cured, but in the tail it is aggravated. we have seen one instance of this disease, but the web of which is subject to the disease, & it small sores & continual sores, & very mortific of the tempt to bleed & run from extraction. It may for this disease often bleed so copiously to cover the ulcer to the patient, & to delay the extraction which up to the time of observation.

The progress of tumors in other organs in animals we have studied to a number of cases of them. In man a tumor cannot always be detected, so such cases may be located in parts impervious to touch and feel. When the tumor is never so elevated that its course can be traced & not apparent to vision the cause. If it tends to move toward the center of the affections, or any part of the body that produces a paroxysm, it is highly probable that the disease is caused by this tumor. The tumor when not connected to the nerve or surrounding parts is movable in all directions, but when enclosed in the nerve it admits of lateral motion only. The indication for the removal of the cause can only be accomplished by the removal of the tu-

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more of the tumor be not connected with the nerve its simple removal will be sufficient; but if involved in the nerve, we have the choice either to dissect it out, or cutting through the nerve above and below the tumor to take it's portion with it. From the two cases published by Sir J. Home in the second volume of the *Transactions of a Society for the Improvement of Medical and Chirurgical Knowledge*, the latter operation would seem preferable, the other having terminated fatally.

Another cause of the disease is said to consist in an engorged state of the periosteum often found to which the nerves involved in the disease are distributed.

This cause was first noticed by Dr. Forstchell in a case published in the first number of the *American medical and surgical journal*, and subsequently by Dr. Weston, who in the succeeding number, entered more fully into the subject and considered it as the sole cause of the disease.

We consider that the disease is situated at the point from which the nerves "twitch & move". If the cause can not exist the disease yet may be found



or, upon, and sometimes off, from, the parastachia, a different process, under it is situated by the joint of the sacrum. The salutary cure may be effected, the more such learned gentlemen are somewhat apprised. 2^o After cutting down upon the bone and finding this state of the parastachium, tie up the artery leading to the joint. 2^o The membranes are inflamed, and to be dried pretty green. Thus relieving the tension and congestion of the diseased membrane, and if necessary, it is to be resected.

From some of the phenomena developed only since it appears that a congestive state of the bowels, in the circulation of the membranes, is peculiar and perhaps by far the most frequent cause of the disease. It is in this case, that the derangement of the general system will prove of influence in aggravating the disease. Its effects manifestly themselves more readily in the rectum, than in the withering of the aggravating cause will render the disease more tractable, and where the derangement may contribute to support the local affection, will allow a more ready cure of the disease: it is proper

to turn our attention to the state of the general system. To
 which cause it is directly concerned of the importance of
 this measure, we to encounter the disease, to remove the
 pain and disturbance of the digestive organs and to de-
 pend on the restoration of their functions for cure. The
 measures to be used will readily suggest themselves ac-
 cording to the state requiring correction. In consequence
 of the presence of Gastralgia and other forms of digestive
 disturbance, much benefit may be derived from Emetics. But
 galactes, &c. & emetics by removing irritability of the muscles and
 by raising the action of the stomach often prove powerful a-
 gent in restoring the tone of the system and in establishing
 the proper balance between the several parts. They have
 necessarily been strongly recommended by Dr. J. P. P.
 St. L. by whom they have been found particularly beneficial
 in the disease under consideration. Hence they may have
 cured the disease, but in most cases, it will be necessary
 to follow up their action by other remedies and purg-
 atives are next employed. The plan of treatment adopted by
 Mr. H. H. consists in the exhibition of five grains of

the blue pill in the evening, to be followed on the succeeding morning by a small dose of Thubarb. This act gently cleanse the bowels, producing a mild aperient effect. It is probably owing to the combination of a mild laxative property with its tonic powers, that the Carbamate of Iron has proved so beneficial in the cure of Neuralgia. The success of this remedy has been generally ascribed to its action as a tonic, and in doses of one scrupule each, its energies are displayed in the mere increased tone imparted to the system. But when administered in larger doses, as one or two drachms repeated twice or thrice a day, greater accuracy has been observed in the pre-asthmatic malady of the alimentary canal and the alvine discharges are soon rendered more regular and more abundant. When increased to the quantity of half an ounce, it has the following effects, as stated in the A. American medical and surgical journal, number six, page 175. "the bowels are moved during the following day, and the pulse much weakened, an effect of invariable occurrence during the use of the Carbamate."

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Nearly the same remark applies to the disease just mentioned.
This article though really important to the Carbuncle of Stone,
is serious, may nevertheless be quite successfully treated
especially when the disease is sudden developed.

The combination of an emetic with a purgative, as mentioned
by Dr. Wilson will sometimes be more effectual than either
remedy alone.

Considering the disease as arising from a disease
condition of the digestive organs, Dr. T. Taylor has recom-
mended the use of Trichloro-acid and Extract of Soaday
giving the cure to be more rapid than when previously
the Carbuncle of Stone. The action of the remedy, which
pervades the digestive system, is not much. It relieves
the purgative effect by lessening the irritability of the ner-
vous system, an operation which will often be performed.

Havingcertified the aetiological cause of the sys-
temic disorder being found, we must turn our attention
to the more immediate cause of the disease, which we
have stated, to consist frequently in a congestive infor-
mation of the neurilema. The means of subduing this state.

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its first salutary and gratifying local effects. Its power may conveniently be examined, but in a majority of cases, it acts so much directly on the mind of the individual, that the only way more generally practicable, is to inquire, what effect it has on us, or to determine the effect upon which it is most consonant with the individual's peculiar temperament. From the very nature of the affection, it will be productive of but little benefit to enquire into the congenital condition of the heart in the race, or about what such benefit promises, except the enquiry is on the extremity of the matter. It is a common observation of the gamblers, in roulette, roulette &c., that the game is not so much a question of chance, as of the individual's temperament. When the disease affects the extremities, we may expect benefit from the circulation of blood in the course of the nerves, carrying hence to the appearance according as more or less benefit is derived by the loss of blood from any particular part.

From its tendency to reduce the pulse, and quicken the circulation, it is useful in cases where the heart has been deprived of sensibility, or the power of the arteries, and may be of use also in diseases adjacent to the heart, & bladder.

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Stictility which so often accompanies Paroxysms,
is particularly the opinion that this state of the system is often
highly concerned in the production of the disease has led to
the idea of Tonics. The effect of this state will certainly take
off the languor by increasing the excretion. By
the use of Sennas we can this state promote an equality
in the excretion and render the nervous system less
susceptible of irritation. There is among the writers of Diseases
but one to consider them as equally necessary than
as any other, namely a uniformly excretion. The car-
bonate of Soda, and recommended by Dr. Hale has
obtained most celebrity in the cure of Paroxysms, according
to the gentleman, the effects of the former are as follows: It
"reduces the general excitement, exciting the digestion,
restores and recovers the circulation, giving a more forcible
to the blood and augmenting in a great degree the energy
of the muscular fibres." Strength of such power would
appear it to be dangerous taken in small doses, but its fre-
quent failure when thus given convinces us that it is
not to no little power active that we are in doubt of the



useful service from an increased dose. The additional quantity
required by this increase has been already mentioned and to
the combined properties more is certainly due than to a
single dose. The easiness of this has not, in this country,
answered the suggestions and raised by Mr. Hulston's
sens publication. Some cases have yielded to the remedy,
but many more have received no benefit. In what cases
this may be attributed to it is impossible to say. It may be, that
not yet being accustomed to the use of the remedy in so large
doses, we have not acquired sufficient boldness to push it
to the extent requisite to test its virtues. The mode of adminis-
tering the Tartinate, which appears most successful, is
to give it doses of a drachme three times a day, and if this
affords no relief to increase the dose. The quantity which
appears to be set to this increase, is in the task of the remedy;
half an ounce has been taken without any deleterious effects.
Occasionally we may commence with half a drachm as a
dose, but this quantity is seldom sufficient to effect a cure.
This remedy at the tempera generally affords a very brief
suspension of the distillation or an increase of the dose.

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the Constituents of the French Republic having the
same opposition in a form of law to restrict the French
Government, as opposition should be made to any policy
which the French Government should propose.
In the Supplementary use of the Tax, that of turning a French republic into
a pure republic. From the accounts thus published, it would show
a regular but a short period of opposition. It would be
useless the Supplementary awarded as visually intended
the annual quarantine, or turning a French republic
merely into a pure republic. Additional for measures to
negative some new, especially by an increasing of the tax, an
some retreat would be especially in this case, and we would
do so if possible. In France, however, we would not
recommend any such measures if an annual quarantine as
especially some other in the system. In reality, there
is no such in that country, at all, as any other
as is proposed that it has been only an empty attempt
in successfully turning out from the difference in the object.

The supplementary use of turning a French republic
sufficiently. In reality, we do not recommend it, as it



With the year 1870 we may then conclude that the disease was
quite clearly and definitely established. This remains though apparent
as yet, to be more or less clearly seen in all the cases of which we have
an exact knowledge, a variety of symptoms. This variety and
the parallel existence of symptoms, distinguishing the disease, is
very striking, and we can only say
that this is a disease of which we have enough to appear
to affect man, it has transmitted the disease.

These are the most important of the three methods now employed in America. The popularity of Dr. and Mr. Nichols' plan has also been a great influence, but since the frequent mortifications, & circulation to them, makes the well regulated way of, vapor exercise, & not to be very used. Dr. C. employs it in the treatment of the country, & is of itself a great power of the disease. Without it, wide as the system may prove, amputating, then cutting and taking away an innocent adjacent, I strengthen the system and tend to restore the energy and equilibrium of the circulation.

Stimulus sets have occasionally been employed with respect to structure. *Quini amonimata* can be very difficult

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Horstuck, in one case, in the dose of a drachm every two hours, and the effect of "utterly curing the disease". By 2 "factions" of Boston the Quina Tincture was given, twice each day, with benefit to the extent of from one to three drachms, three times a day; but on repeating the trial in another, it was "not even equal to the cure of the disease". In France, the Oil of Turpentine in the dose of a drachm twice a day, was made to give success in a mere epithelial Neuralgia. This remedy was first recommended by M. Charliat, and several subsequent experts concur in its efficacy. Under that name we may also place Electricity. This is reported to have been useful in some cases, whilst others to have caused a much suffering, while entirely innocent as we.

Minerals, or counter-irritants in removing local congestions, render themselves available to the doctor under consideration. Though their application will tend to follow a &c. &c. yet we will be disappointed of too much reliance be given in their efficacy. These articles will be the more effectual the nearer they are placed to the seat of the disease. Of these remedies, Blistering often rendered excellent



is kept up until the first pulse. During most diseases it is difficult to discern the course of the ague and fever. Consequently however various have appeared in the interpretation. Some give the extremitie of the disease as the cause, according to the excess of affection, whether intermitting, which offends the exterior and the interior of the choroid. Some put the disease in the exterior of the choroid. In others of them again, in others again, in others again, the course of the affection is between the exterior and the interior, and in others again, when occurring at others failing or varying in degree in its intensity. Irritating, tormenting, afflicting, tormenting, distressing, with the effect of alleviating, and sometimes of curing the disease.

The last remedy to be mentioned is Mercury, which is of a salutary nature. This however continually perplexes the disease, but, loss of our last resource, and of memory in mind remaining. While it does not affect memory, it often affects reason, the elements. Sometimes with great effect to bring a long and incurable disease to a quietus, unless they are not manifested until the action of the mercury is subsiding.



Plaige second. Some measures calculated to prevent the action of the cause of remitting the convulsions.

These measures are two, the use of Narcotics and an operation. The cause of this disease appears to be of such a nature, as to subside spontaneously when the exciting cause ceases; when by their action they are not capable of producing a cure, they act in these cases by deadening the nervous fibre, thus before it the paroxysms will allow the disease to subside, as the paroxysms no longer recruit the convulsive cause will keep up the convulsions. It has been attributed to this that opium has been found insufficient to effect a cure. When employed to such an extent as to bring the system under its control, it acts as a palliative, but it requires a constant increase in the dose, and dependence upon paroxysms necessarily so much inferior is that of other articles in the same class.

The first article of this class which we may consider is the Cocaine, of the use of which we are indebted to Dr. J. Bellinger. In the animal kingdom it may be said it produces favorable effects, if conte-



and, is a sufficient antidote. The same measure he found out of Dr. Jackson of Boston with similar success, but in the case he found it requisite to give three hundred grains in six hours, when it was ineffectual. His account and the one of a like nature exhibit this remedy in a favourable light, and shew its efficacy when the system is exquisitely unwell or violent. The effects of this remedy generally manifest themselves, according to Dr. Jackson, in less than two hours. I ^o prefer to commence with one grain of the extract, to be increased to five grains on the second or third dose, and five grains to be added to each succeeding dose, until the desired effect was produced.

This remedy is worthy of further trial; Cases will however be met, in which it will only serve palliative.

The Virgin Belladonna has also a weighty service, first applied to the cure of the disease by Dr. Bailey, who used it with much success. Later accounts have coincided with his. The tincture and extract are both useful. The latter is to be used in doses of one grain gradually increasing until effects appear, when smaller doses will keep up the action.

Stramonium from its unctuous, when perking article has
not been used. The cups are well used when distributed.

2^o There's recommended the Cupping of the Ear, & from
the same in doses of from one eighth of a grain to a grain which
should not be exceeded until its effects have been ascertained
etc. 3^o Dr. Galeau's is recommended to combine by a
vacuumia with the Stramonium, as it destroys the decidui
in affected, affections respecting those which are congenital.

The late use of these articles has since proved to be
inefficual. This moderate action it can be easily superseding etc to
be referred, as the injurious effects are hereby avoided. They are
employed in the form either of an unguent or plaster to the
extremities of the affected nerve. With the same article
etc they had employed with success a plaster chiefly compre-
sed of Lead. The failure of the articles of this class may
often be attributed to the impurity of the medicine which
not being given in doses sufficient to bring the system into
some order, is content. Most medicines are found
unfit for use to be impure & require it by some very
curious steps to reduce their specific effects. Something to



thus impurely and attributed the consequence which it
necessarily have been found requisite to procure even incon-
siderable effects. Previous to the 2nd October the cure
was made in the amount of eight years and for seven
years now, produced "entirely perfect" yellings for that time.
While such an impure inoculation and weak inoculation
are now contended, and by the system evidently gradually
accustoming the system to the suppuration of effects. It is
apparent that the nearer the system to a perfect greater is
the impression on the disease and the smaller the doses
subsequently required for its control.

The other measure of curing, is to cut and/or
pull especially at the division of the nerve. It is evident that
this can avail but little unless the division be made between
the diseased joint and the sensorium. The operation has
met with success in the hands of Andre, Knighton and others;
but with more it has ended in disappointment and failure.
The cause of failure may often be attributed to ignorance
of the location of the disease, with which even of the pretend-
ing we are not better acquainted. The following circum-



studies may, perhaps, give some insight into my trouble, & to mention in a case a short time ago in your column, & that you will have in your power, will give you some idea of the pain. The exanthematous fevers, & especially, but the disease was common, were the extremes of the fever, and the heat of the paroxysm was to cut off the communication with the exterior. The result of the operation was a removal of the exanthem, so that there was no exanthematous fever, & no more extreme heat, which gives rise to the same suggestion. There is still a marked difference in your case, & some, who do not understand you, may suppose that you are not in the same case. I think, however, that you are in the same case, & that the difference is that you are not exanthematous, & are not in the extreme heat of the disease. This is what I think, & I hope you will be satisfied with my opinion. I think that I may be right, & that the condition of the disease, & the cause of the disease, are right, but I am not sure. I have no other.

The means of preventing are taken in the single division, the other two divisions of partition of the house, in, *female* and *male*, *daughter* and *son*, our division, proved necessary by the re-union of the house. The condition of partition *now* has a restorative to render the divided *house* or *family* *perfect*. A peculiarity of the first war *accident*, " " *destroying* in the case of "



which occurs in a thin layer like that of the fine granular
subsequent to the first, & is composed of a granular
material, suspended in a very watery and slightly
pasty mass of the same color. The fine granules
are from the size of a grain of sand to a $\frac{1}{2}$ of an
inch by the larger ones of this size. The fine granules
are at the top, & on the cut surface of the mass
may be seen the fine granules, just incrusting the
so granular mass of clay without a degree of
degree of granular appearance to the specimen, & are
more difficult than possible to convert granular, or to
a much more rounded mass.

We have now passed the entire
distance of all the distance from the head until
we get to the City of Rio, but we must not neglect a number of
small cities whose names are unable to be de-
scribed, nor may we omit any place of interest. The
principal town, consisting of the opposite of
the mountain were very small, & being consider-
able have the same features just over the



magnetic needle. These species have now decayed and it is at present but rarely employed. Whether it ever was efficacious, except by its effects on the imagination, it is impossible to say. We cannot however be considerate too sceptical in doubting its power, when the fate of a similar remedy, the metallic Directors, is taken into consideration.

The Acupuncture needle has successively in the stimulation of many. Notwithstanding the high encomium passed upon it, its efficacy in the cure of Neuralgia yet remains doubtful. We have seen it applied in several cases but never with any decided benefit. This however should not deter us from its use, as the application is simple and the pain produced is but slight. Irritation to a high some cases may be more appropriate for its application than others, a circumstance which at present we are unable to appreciate.

